

Application No.: 09/356,260

Docket No.: AGERE 3.0-005

IN THE CLAIMS

Cancel claims 1-19.

20. (new) A method of transmission in a multi-frame system, each frame of the multi-frame system being associated with a first type of control information, there further being provided a second type of control information, the method comprising:

- a. partitioning the second type of control information into a number of sections corresponding to the number of frames in the multi-frame; and
- b. transmitting with each frame of the multi-frame:
  - i. the first type of control information for the respective frame; and
  - ii. a section of the partitioned second type of control information.

21. (new) A method according to claim 20 wherein the second type of control information is for use on receipt of the multi-frame.

22. (new) A method according to claim 20 further comprising the step of, on receipt of the multi-frame, reforming the second type of control information.

23. (new) A method according to claim 20 wherein the transmission is in a downlink of a communication system, the first type of control information representing a coding mode applied in the downlink, and the second type of control information representing a coding mode to be applied in an uplink of the communication system.

24. (new) A method according to claim 20 wherein the transmission is in an uplink of a communication system, the first type of control information representing a coding mode

Application No.: 09/356,260

Docket No.: AGERE 3.0-005

applied in the uplink, and the second type of control information representing a downlink quality measured in the downlink.

25. (new) A method according to claim 20 wherein the step of transmitting further comprises transmitting data with each frame.

26. (new) A method according to claim 25 wherein the step of transmitting comprises channel encoding said data and said section of the second type of control information.

27. (new) A method according to claim 26 further comprising channel coding the first type of control information.

28. (new) A method according to claim 27 further comprising frame formatting and interleaving the channel coded first type of control information, data, and section of the second type of control information.

29. (new) A method of transmission in a multi-frame system, each frame of the multi-frame system being associated with a first type of control information, there further being provided a second type of control information, wherein each frame is transmitted with the first type of control information for the respective frame; and a section of a partitioned second type of control information, the method comprising:

- a. receiving frames of the multi-frame; and
- b. reforming the sections of the second type of control information into the second type of control information.

30. (new) A method according to claim 29 further comprising the step of decoding the received frames in accordance with a mode code derived from the first type of control information for each frame.

Application No.: 09/356,260

Docket No.: AGERE 3.0-005

31. (new) A method according to claim 29 further comprising encoding frames for transmission depending on the reformed second type of control information.

32. (new) A communication device for a multi-frame transmission communication system, each frame of the communication system being associated with a first type of control information, there further being provided a second type of control information, the communication device comprising:

- a. partitioning means adapted to partition the second type of control information into a number of sections corresponding to the number of frames in the multi-frame;
- b. transmitter means adapted to transmit with each frame of the multi-frame:
  - i. the first type of control information for the respective frame; and
  - ii. a section of the second type of control information.

33. (new) A communication device for a multi-frame transmission communication system, each frame of the communication system being associated with a first type of control information, there further being provided a second type of control information, wherein each frame is transmitted with the first type of control information for the respective frame; and a section of a partitioned second type of control information, the communication device comprising:

- a. receiving means for receiving frames of the multi-frame; and

Application No.: 09/356,260

Docket No.: AGERE 3.0-005

- b. reforming means for reforming the sections of the second type of control information into the second type of control information.

34. (new) A multi-frame transmission communication system, each frame of the communication system being associated with a first type of control information, there further being provided a second type of control information, the communication system comprising:

- a. a first device having a partitioning means adapted to partition the second type of control information into a number of sections corresponding to the number of frames in the multi-frame, and transmitter means adapted to transmit with each frame of the multi-frame, the first type of control information for the respective frame, and a section of the second type of control information; and
- b. a second device having a receiver means adapted to receive frames of a multi-frame transmission from the first device, and means for reforming the partitioned second type of control information.

35. (new) A multi-frame transmission communication system according to claim 34 wherein the second device is adapted to decode the frames of the multi-frame transmission in dependence on the first type of control information contained in a received frame.

36. (new) A multi-frame transmission communication system according to claim 35 wherein the second device further comprises encoding means for encoding data transmission using a mode code based on the reformed second control information.

Application No.: 09/356,260

Docket No.: AGERE 3.0-005

37. (new) A multi-frame transmission communication system according to claim 34 wherein there is an uplink established from the first device to the second device.

38. (new) A multi-frame transmission communication system according to claim 34 wherein there is downlink established from the first device to the second device.

THE REMAINING PORTION OF THIS PAGE IS INTENTIONALLY LEFT BLANK